

Title (en)
METHODS FOR CULTURING AND/OR DIFFERENTIATING HEMATOPOIETIC STEM CELLS INTO PROGENITORS AND USES THEREOF

Title (de)
VERFAHREN ZUR KULTIVIERUNG UND/ODER DIFFERENZIERUNG HÄMATOPOETISCHER STAMMZELLEN IN VORLÄUFER UND VERWENDUNGEN DAVON

Title (fr)
MÉTHODES POUR CULTIVER ET/OU DIFFÉRENCIER DES CELLULES SOUCHES HÉMATOPOÏÉTIQUES EN PROGÉNITEURS, ET UTILISATIONS CORRESPONDANTES

Publication
EP 3303570 A1 20180411 (EN)

Application
EP 16802299 A 20160603

Priority
• US 201562171492 P 20150605
• US 201662335983 P 20160513
• CA 2016050630 W 20160603

Abstract (en)
[origin: WO2016191879A1] The present description relates to in vitro methods for culturing hematopoietic stem cells (HSCs) under mild hyperthermia conditions (e.g., between 38°C and 40°C) in the presence of a pyrimidoindole derivative agonist of hematopoietic stem cell expansion. The combined use of mild hyperthermia and the pyrimidoindole derivative act synergistically to promote expansion of CD34+ HSCs and/or differentiation into progenitor cells (e.g., megakaryocytic progenitors). The present description also relates to in vitro expanded cell populations of HSCs and/or progenitors, as well as uses thereof in therapy (e.g., transplantation).

IPC 8 full level
C12N 5/0789 (2010.01); **A61K 35/15** (2015.01); **A61K 35/28** (2015.01); **A61P 7/00** (2006.01); **C12N 5/071** (2010.01)

CPC (source: EP IL KR US)
A61K 35/15 (2013.01 - EP IL KR US); **A61K 35/19** (2013.01 - EP IL KR US); **A61K 35/28** (2013.01 - EP IL KR US); **A61P 7/00** (2018.01 - EP IL); **A61P 43/00** (2018.01 - EP IL); **C12N 5/0644** (2013.01 - EP IL KR US); **C12N 5/0647** (2013.01 - EP IL KR US); **A61K 2300/00** (2013.01 - IL US); **C12N 2500/36** (2013.01 - EP IL US); **C12N 2501/10** (2013.01 - IL KR); **C12N 2501/125** (2013.01 - EP IL US); **C12N 2501/14** (2013.01 - EP IL US); **C12N 2501/145** (2013.01 - EP IL US); **C12N 2501/23** (2013.01 - IL KR); **C12N 2501/2306** (2013.01 - EP IL US); **C12N 2501/2309** (2013.01 - EP IL US); **C12N 2501/26** (2013.01 - EP IL KR US); **C12N 2501/998** (2013.01 - EP IL KR US); **C12N 2501/999** (2013.01 - EP IL KR US); **C12N 2523/00** (2013.01 - EP IL KR US)

C-Set (source: EP IL KR US)

EP US
1. **A61K 35/15 + A61K 2300/00**
2. **A61K 35/28 + A61K 2300/00**
3. **A61K 35/19 + A61K 2300/00**
IL KR
A61K 35/15 + A61K 2300/00

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016191879 A1 20161208; AU 2016273439 A1 20180104; AU 2016273439 B2 20201105; CA 2987974 A1 20161208; CA 2987974 C 20211012; CN 107922926 A 20180417; CN 107922926 B 20210910; EP 3303570 A1 20180411; EP 3303570 A4 20181212; EP 3303570 B1 20210120; IL 256093 A 20180228; IL 256093 B 20210630; JP 2018516089 A 20180621; JP 6954844 B2 20211027; KR 102278306 B1 20210715; KR 20180023947 A 20180307; NZ 738216 A 20210326; US 10828329 B2 20201110; US 11666600 B2 20230606; US 2018147239 A1 20180531; US 2021023131 A1 20210128

DOCDB simple family (application)
CA 2016050630 W 20160603; AU 2016273439 A 20160603; CA 2987974 A 20160603; CN 201680045565 A 20160603; EP 16802299 A 20160603; IL 25609317 A 20171204; JP 2017563211 A 20160603; KR 20187000413 A 20160603; NZ 73821616 A 20160603; US 201615579489 A 20160603; US 202017037091 A 20200929